

Applications...Conversions

B

1. A baker needs to double a recipe that requires 3 cups of milk, but he only has SI measuring utensils. How many mL of milk will he need?

US

2. A convenience store in the US sells 4 different sizes of slushy drinks: 12 US fl oz, 16 US fl oz, 28 US fl oz, and 40 US fl oz. What would be the equivalent sizes in millilitres? Do the millilitre sizes correspond to the drink sizes in your neighbourhood?
3. Anne-Laure is a toy manufacturer. She imported a supply of boxes from the US with the dimensions 12" \times 6" \times 8". She needs a box for a game that measures 20 cm \times 11 cm \times 16 cm. Will the game fit in the boxes she imported?
4. An American tourist has crossed the Canadian border. His vehicle has a 15-US gallon capacity and he has $\frac{1}{8}$ tank of gas left. If the price of gas is \$1.10 a litre, how much will it cost him to fill his tank?
5. Everett owns and operates an auto repair shop. He wants to pour a concrete pad 24' \times 22' \times 4" in front of the garage. J & L Concrete sells concrete for \$145.00/yd³ and M & W Concrete sells concrete for \$165.00/m³. How much will each company charge? Which company should Everett buy his concrete from?

Use ^{US} Imperial conversions once you determine how many US Gallons to fill the tank

SOLUTIONS...

Everett should buy from M & W concrete.

5. J & L Concrete: ~~\$2217.00~~ 957.00 } # is may be off due to how you rounded.
M & W Concrete: ~~\$2217.00~~ 821.70 }
4. \$55.00 (Approximately)
3. Yes, the game will fit in the box.
2. 12 US fl oz = 355 mL
16 US fl oz = 474 mL
28 US fl oz = 829 mL
40 US fl oz = 1184 mL
1. 750 mL

Review for Test!

Name : _____ Score : _____

Teacher : _____ Date : _____

Converting English and Metric

- 1) _____ inches = 21 centimeters
- 2) 10 mph = _____ kmph
- 3) _____ miles = 14.5 kilometers
- US 4) 13 gallons = _____ liters
- US 5) _____ quarts = 3 liters
- B 6) 9 cups = _____ liters
- B 7) 9.5 teaspoons = _____ milliliters
- 8) 19.5 square inches = _____ square centimeters
- 9) 8 cups = _____ liters
- 10) _____ cubic inches = 3.5 milliliters
- 11) _____ cubic inches = 7.5 milliliters
- US 12) 10.5 gallons = _____ liters
- 13) _____ feet = 5 meters
- 14) _____ cubic feet = 2 cubic meters
- B 15) _____ teaspoons = 6 milliliters
- 16) _____ cubic yards = 12 cubic meters
- 17) _____ square inches = 1 square centimeters
- 18) 19 yards = _____ meters
- US 19) 20 fluid ounces = _____ milliliters
- 20) 15 cubic feet = _____ cubic meters

Geometry, Measurement & Finance 10 - MIXED Conversions

Math-Aids.Com

Answers:

- 1) 8.27 in
- 2) 16.09 kmph
- 3) 9.01 mi
- 4) 49.21 L
- 5) 3.17 Ql

- 6) 2.25 L
- 7) 47.5 mL
- 8) 125.81 cm²
- 9) 2 L
- 10) 0.21 in³

- 11) 0.46 in³
- 12) 31.75 L
- 13) 16.4 ft
- 14) 70.63 ft³
- 15) 1.2 tsp

- 16) 15.69 yd³
- 17) 0.15 in²
- 18) 17.37 m
- 19) 591.47 mL
- 20) 0.42 ft³